



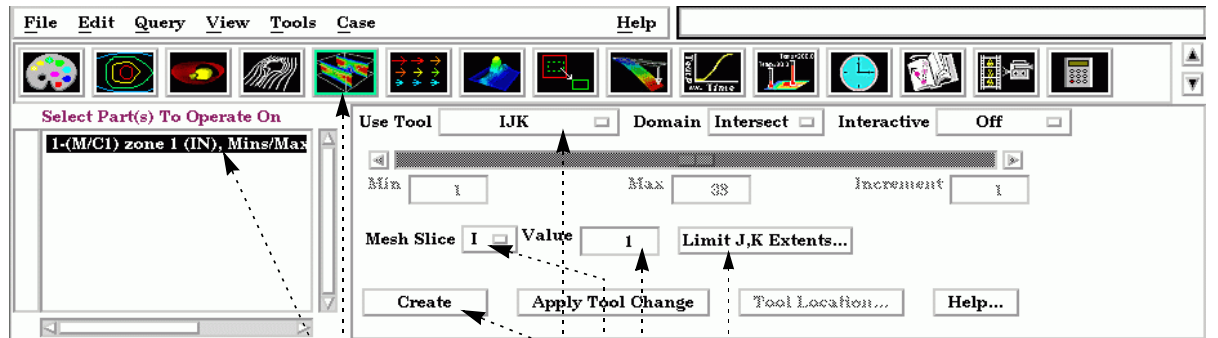
Create IJK Clips

INTRODUCTION

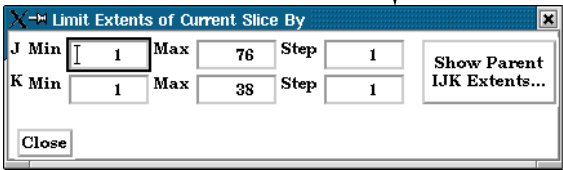
An IJK clip is a 1D or 2D slice through a structured mesh. The resulting clip is a 1D line or 2D surface where one dimension (e.g. I) is held fixed while the other one or two dimensions (e.g. J and K) vary. The minimum and maximum range of the free dimensions can be set by the user, as well as the step size. IJK clips can be animated throughout the range of the fixed dimension by manipulating a slider.

Although planar clips can still be created through structured meshes, it is often preferable to create IJK clips since they are faster to calculate and use less memory. In addition, IJK clips are often more intuitive for the user (who typically built the mesh).

BASIC OPERATION



- 1. Select the parent part.....
- 2. Click the Clip icon.....
- 3. Select IJK from the Use Tool pulldown.....
- 4. Select the desired fixed dimension from the Mesh Slice pulldown.....
- 5. Enter the value for the fixed dimension in the Value text field and press return.....
- 6. If you desire to modify values for the Min, Max, and Step for the two free dimensions, click this and the dialog below will open up.....
- 7. Click Create.....



Note that you can change the fixed dimension of an IJK clip at any time (with the Mesh Slice pulldown). If you change one of the numeric values, remember to press return for the change to take effect.



ADVANCED USAGE

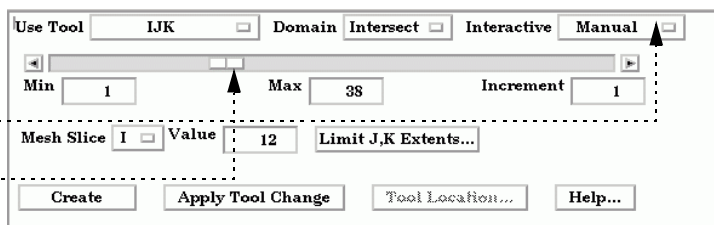
Interactive IJK Clipping

You can interactively sweep through the range of the fixed dimension by adjusting a slider with the mouse.

1. Double-click the desired IJK clip part in the parts list.

2. Change Interactive to Manual, to enable sweeping.

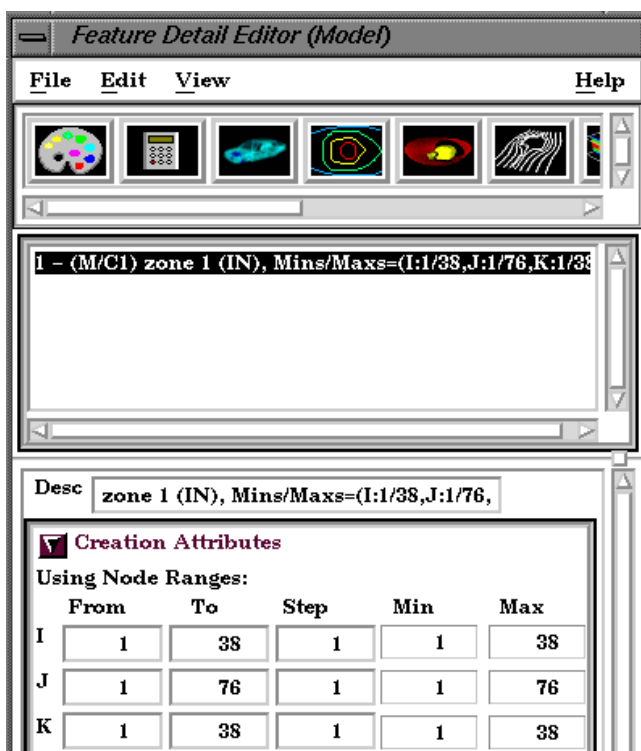
3. Adjust the slider with the mouse.



Changing IJK Step Refinement

You can modify block-structured model parts to any level of IJK step refinement with proper updating of all dependent parts and variables.

1. Select **Edit > Part Feature Detail Editors > Model Parts ...** to open the **Feature Detail Editor (Model)** dialog.



2. In the **Creation Attributes** area, enter values into the **From**, **To**, and **Step** fields based on their **Min** and **Max** limits to update the refinement of the respective I, J, and/or K mesh component directions (remember to press **Return**).

Clipping Plane Animation

Although you can interactively sweep an IJK clip through a mesh, it is sometimes desirable to have EnSight automatically calculate a series of IJK clips for you. These can then be replayed (as fast as your graphics hardware will permit) using EnSight's Flipbook Animation facility. See [How To Create a Flipbook Animation](#) for more information.



SEE ALSO

[Introduction to Part Creation](#)

[How To Create a Flipbook Animation.](#)

Other clips:

[How to Create Clip Lines](#)

[How to Create Clip Planes](#)

[How to Create Quadric Clips](#)

[How to Create XYZ Clips](#)

[How to Create XYZ Box Clips.](#)

User Manual: [Clip Create/Update](#)